MANHOLE RATING SYSTEM FOR THE OUTFALL SEWERSHED EVALUATION	
The following criteria shall be used when establishing the rating of active sewer manholes:	
1	MH should be in like-new condition with no visible signs of deterioration, defects, or significant signs of inflow and/or infiltration.
2	MH should only have minor defects that do not affect the sewer's flow characteristics or the structural condition of the MH. Only minor signs of inflow and/or infiltration should be visible.
3	MH should contain one or more of the following characteristics:  Evidence of inflow (Leakage around frame and cover)  Evidence of infiltration (Wall staining, etc.)  Evidence of surcharging  < 2 missing MH steps  Frame offset < 4-inches  Minor cracking of the MH cover  < 20% missing or deteriorated bricks in the frame adjustment section  Minor evidence of infiltration around the frame and/or frame adjustment section  Light root intrusion (not affecting sewer flow)  Light debris (not affecting sewer flow)  Light grease (not affecting sewer flow)  Minor cracks (not affecting the structural condition of the MH)  Deterioration in only one (1) area of the MH
4	MH should contain a minimum of two or more of the following characteristics:  Significant signs of inflow (Leakage around frame and cover)  Evidence of multi-point infiltration (staining) or active infiltration  Active surcharging of the MH  3 or more missing MH entry steps  Frame offset > 4-inches  Cracked MH frame and/or cover > 20% missing or deteriorated bricks in the frame adjustment section  Evidence of significant infiltration around the frame and/or adjustment section  Medium root intrusion  Heavy debris (affecting sewer flow)  Heavy accumulation of grease (affecting sewer flow)  Major cracks affecting the structural condition of the MH  Missing bricks or other small portions of the MH  Damage to bench affecting flow  Structural deterioration in multiple areas
5	Manhole is in danger of failure or collapse Severe deterioration with voids/soil visible Active infiltration Missing MH cover or pieces of frame and/or cover Heavy root intrusion Active Sewer Overflow

The criteria in the following example shall be used when establishing the rating of active sewer manholes:

MH should be in like-new condition with no visible signs of deterioration, defects, or significant signs of inflow and/or infiltration.







No Significant Defects, Deterioration, Inflow, or Infiltration

The criteria in the following example shall be used when establishing the rating of active sewer manholes:

MH should only have minor defects that do not affect the sewer's flow characteristics or the structural condition of the MH. Only minor signs of inflow and/or infiltration should be visible.





**Minor Signs of Infiltration** 



**Minor Signs of Inflow** 

The criteria in the following example shall be used when establishing the rating of active sewer manholes:

MH should contain one or more of the following characteristics:

Evidence of inflow (Leakage around frame and cover)

Evidence of infiltration (Wall staining, etc.)

Evidence of surcharging

< 2 missing MH steps

Frame offset < 4-inches

Minor cracking of the MH cover

< 20% missing or deteriorated bricks in the frame adjustment section

Minor evidence of infiltration around the frame and/or frame adjustment section

Light root intrusion (not affecting sewer flow)

Light debris (not affecting sewer flow)

Light grease (not affecting sewer flow)

Minor cracks (not affecting the structural condition of the MH)

Deterioration in only one (1) area of the MH



Evidence of Inflow (Leakage Around Frame and Cover)



**Evidence of Infiltration** 



**Evidence of Surcharging** 



< 2 Missing MH Steps



Frame Offset < 4-Inches



**Minor Cracking of MH Cover** 



< 20% Deteriorated Bricks in the Frame Adjustment Section



**Light Root Intrusion** 



**Light Debris (Not Affecting Sewer Flow)** 



**Light Grease (Not Affecting Sewer Flow)** 



**Minor Cracks (Not Affecting The Structural Condition of The MH)** 



**Deterioration in Only One Area of The MH** 

The criteria in the following example shall be used when establishing the rating of active sewer manholes:

MH should contain a minimum of two or more of the following characteristics:

Significant signs of inflow (Leakage around frame and cover)

Evidence of multi-point infiltration (staining) or active infiltration

Active surcharging of the MH

3 or more missing MH entry steps

Frame offset > 4-inches

Cracked MH frame and/or cover

> 20% missing or deteriorated bricks in the frame adjustment section

Evidence of significant infiltration around the frame and/or adjustment section

Medium root intrusion

Heavy debris (affecting sewer flow)

Heavy accumulation of grease (affecting sewer flow)

Major cracks affecting the structural condition of the MH

Missing bricks or other small portions of the MH

Damage to bench affecting flow

Structural deterioration in multiple areas



**Active Inflow** 



**Active Surcharging** 



**Evidence of Multi-Point Infiltration** 



3 or More Missing Steps



Frame Offset > 4-inches



**Frame Cracked** 



**Frame Cracked** 



> 20% Deteriorated Brick In the MH Frame Adjustment Section



Significant Infiltration Around Frame and/or Adjustment Section



**Medium Root Intrusion** 



**Heavy Debris (Affecting Sewer Flow)** 



**Heavy Grease (Affecting Sewer Flow)** 



Major Crack Affecting Structural Condition and Contributing Infiltration



**Missing Bricks** 





**Multiple Structural Deterioration Affecting Sewer Flow** 

The criteria in the following example shall be used when establishing the rating of active sewer manholes:

Manhole is in danger of failure or collapse

Severe deterioration with voids/soil visible

Active infiltration

Missing MH cover or pieces of frame and/or cover

Heavy root intrusion

Active overflow



Manhole is in Danger of Failure or Collapse



Severe Deterioration with Voids/Soil Visible



**Missing MH Frame And Cover** 



**Active Infiltration** 



**Heavy Root Intrusion** 



**Active Overflow**